WBLE-SL ▶ UECM347	3-202201-EZZ ▶ Quizzes ▶ 202201UECM34	1730E2a ► Review of preview	Update this Quiz
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Started on	Monday, 21 February 2022, 06:34 PM		
Completed on	Monday, 21 February 2022, 06:35 PM		
Time taken	9 secs 0 out of a maximum of 10 (0%)		
Grade	o out of a maximum of 10 (0%)		
1 © Marks: 1	You are given: The number of claims has a Poiss Claims sizes have a Pareto distrit The number of claims and claims The observed pure premium shou	bution with $\alpha=5.0$, $\theta=0.5$. sizes are independent. uld be within 9% of the time.	
	Answer: Make comment or override grade Incorrect Correct answer: 890.87 Marks for this submission:	0/1.	
2 ** Marks: 1	 The number of claims and claim s 	istribution distribution with $\sigma=0.5$. sizes are independent. uld be within 7% of the expected pure premium 99% of the time.	
	Answer: Make comment or override grade Incorrect Correct answer: 64402.9 Marks for this submission:	0/1.	
_			
3 ☑ Marks: 1	 Λ varies by individual in accordar Claims severity follow a Pareto di f(x) = 7θ⁷/(x+θ)⁸, x>0, θ>0. 	dividual follows Poisson distribution with mean λ . nce with gamma distribution with parameters $\alpha=2$ and $\theta=1.66$. istribution with probability density function: f aggregate loss experience is set so that the probability of observed claims being within 7% of expected claims is 99%.	

Determine the number of claims required for full credibility. _____

	Answer:	X X			
	Make comment or override grade Incorrect Correct answer: 5498.21 Marks for this submission	n: 0/1.			
4 🗑	For a group dontal plan, each individ	ually number of claims fallow Deisson distribution with parameter 1. 1 varies by individual in accordance with the following distribution:			
Marks: 1	For a group dental plan, each individual's number of claims follow Poisson distribution with parameter λ. λ varies by individual in accordance with the following distribution: Probability 10.49 20.44 50.07 Claim sizes follow log normal distribution with parameter μ and σ = 0.30. Classical credibility techniques are used. The standard for full credibility of aggregate loss experience is set so that the probability of observed claims being within 5.00% of expected claims is 99%. Determine the number of claims required for full credibility				
	Answer:	x			
	Make comment or override grade Incorrect Correct answer: 4511.68 Marks for this submission	n: 0/1.			
5 😭 Marks: 1	The full credibility standard for a company is set according to the methods of classical credibility so that the total number of claims is to be within 4% of the true value with probability P. This full credibility standard is calculated to 969 of the standard is altered so that the total cost of claims is to be within 8% of the true value with probability P. The claim frequency has a Poisson distribution and the claim severity had the distribution				
	What is the expected number of clair	$f(x) = \frac{(150-x)/11250.0, \text{ for } 0 < x < 150}{(150-x)/11250.0, \text{ for } 0 < x < 150}$ as necessary to obtain full credibility under the new standard?			
	Answer:	x			
	Make comment or override grade Incorrect Correct answer: 363.375 Marks for this submission	n: 0/1.			
	A				
6 ☑ Marks: 1	Aggregate claims follows a Pareto distribution with parameters α = 5 and θ = 5. The full credibility standard is set according to the methods of classical credibility so that actual aggregate claims are within 9% of expected aggregate claims 95% of the time. Determine the amount of expected aggregate claims needed for full credibility.				
	Answer:	x			
	Make comment or override grade				
	Incorrect Correct answer: 988.065844 Marks for this submission	: 0/1.			
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7 ♥ Marks: 1	 The number of claims per expo 	If for full credibility. If for full credibility. If for full credibility. If was selected using a normal approximation so that the actual total cost of claims is within 3.5%; of the expected total 95%; of the time. If or full credibility. I			
	If mean claim severity is 1,359, dete	rmine the standard deviation of the claim severity distribution			
	Answer:	x			
	Make comment or override grade				

	Incorrect Correct answer: 1759.775594 Marks for this submission: 0/1.				
8 ☑ Marks: 1	For a group dental plan, each individual's number of claims follows Poisson distribution with parameter λ . λ varies by individual in accordance with gamma distribution with parameter $\alpha = 5, \theta_1 = 3$. Claim sizes follow and inverse Gaussian distribution with parameter $\mu = 1300, \theta_2 = 7.5$. Classical credibility techniques are used. The standard for full credibility of aggregate loss experience is set so that the probability of observed claims being within 10% of expected claims is 90%. Determine the number of claims required for full credibility.				
	Answer:	x			
	Make comment or override grade Incorrect Correct answer: 47986.843333 Marks for this submission	: 0/1.			
9 👺 Marks: 1	 For an insurance coverage you are given: Claim counts follow a Poisson distribution. Claim sizes follow an exponential distribution with mean μ. μ varies by insured according to a gamma distribution with parameters α = 6 and θ = 200. The methods of limited fluctuation credibility are used. 2600 expected claims are required for full credibility. The full credibility standard is that actual claims should be within 8% of expected claims with probability p. Determine p				
	Answer:	x			
	Make comment or override grade Incorrect Correct answer: 0.9924 Marks for this submission	: 0/1.			
10 ♥ Marks: 1	• Claim frequency has a Poisson distribution. • Claim frequency has a Poisson distribution. • Claims size has a Gamma distribution with α = 3.5, θ unknown. • Using the methods of classical credibility, a full credibility standard of 940 expected claims has been established so that actual aggregate claim costs will be within 6% of expected aggregate claim costs P% of the time. Determine P				
	Answer:	X			
	Make comment or override grade Incorrect Correct answer: 89.48 Marks for this submission	: 0/1.			

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